Winter \*\*

## Flood Control Project Maintenance Levee Inspections

## **LMA District Cover Sheet**

**Spring 2018 Levee Inspection Results** 

## **Reclamation District No. 2095 Paradise Cut**

	(March - May)	(June - August)	(September - November)	(December - February)					
† Overall LMA Rating (Fall Only)									
,	** Non-receipt of Summ Reports may effect o	ner or Winter Inspection verall annual rating.							
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated				ual maintenance					
FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.									
Comments									

## **Unit Cover Sheet**

**Spring 2018 Levee Inspection Results** 

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles
Unit No. 01 Paradise Cut	Left	1.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/15/2018 - 5/15/2018			
DWR Inspector	Zach Jojola			
Accompanied By	Rosie Silva RD2095			

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

## http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start		Rating **	Α	Issue No. 14			
LM End		Issue Type +	Ма	Location * N/A			
Cotogony	Earthen L	evee		GPS La	atituc	de/Longitude	
Category				Start		End	
Item		s & Maintena	nce		0		0
Manuals Manuals				0		0	
DWR ID	DWR_RD2	095_01_s _ 201	3_14				
		Comn	nent Cod	le			
		Inspecto	or Comm	nent			
The O&M	Manual is	available at th	e office.				

No Photos

LM Start		Rating **	Α	Issue No.		17		
LM End		Issue Type +	Ma	Location *	N/A			
Category	Earthen L	evee	GPS Latitude/Longitude					
		Start		End				
Item	Flood Pre	Flood Preparedness & Training			0		0	
item					0		0	
DWR ID	DWR_RD2	095_01_s _ 201	3_17					
Comment Code								

No Photos

Inspector Comment
The LMA has a current flood fight training and a flood fighting plan.

LM Start		Rating **	A	Issue No.		19			
LM End		Issue Type +	Ma	Location *	N/A				
Category	Earthen Levee			GPS Latitude/Longitude					
Calegory				Start		End			
Item	Emergency Supplies & Equipment				0		0		
пеш					0		0		
DWR ID	DWR_RD2	095_01_s _ 201	3_19						
	Comment Code								

Inspector Comment

No Photos

Flood fighting supplies available on-site at the warehouse.

l	* Location	** Rating		+ Issue Type
l	LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
I	WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
ı	CR · Crown	II · I Inaccentable	A/W · Acceptable but Monitor & Maintain	En : Enforcement

## **Levee Inspection Report By Mile - Spring 2018**

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.15	Rating **	A/W	Issue No.		10
LM End	0.15	Issue Type +	Ma	Location *		WS
Category Earthen Levee			GPS La	titud	le/Longitude	
Calegory				Start		End
Item	Slope Sta	Slope Stability			97°	37.769997°
item				-121.3250	55 °	-121.325055 °
DWR ID	DWR_RD2095_01_f _ 2015_10					

#### Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

## Inspector Comment

LMA is actively controlling access. The slope appears to be stable and should be monitored for possible erosion.

## Photo 1 of 1: SP\_2018\_RD2095\_322\_10\_20180507\_00001.jpg



View of the vehicle tracks on the waterside levee slope.

LM Start	0.71	Rating **	М	Issue No.		11
LM End	0.71	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroach	Encroachments			30°	37.763630°
item			-121.3190	45 °	-121.319045°	
DWR ID	DWR_RD2	095_01_s _ 201	2_11			

## Comment Code

BU: Building

## Inspector Comment

Pump house near RR.

# Photo 1 of 1: SP\_2018\_RD2095\_322\_11\_20180507\_00002.jpg



View of building at the landside levee toe.

LM Start	0.78	Rating **	Α	Issue No.	5		
LM End	1.47	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Vegetation		37.7628	57°	37.759172	0		
Item				-121.3183	71 °	-121.308117	0
DWR ID	DWR RD2	095 01 s 201	8.5				

## Comment Code

V1: Control annual grass and weeds on the levee slopes and easements.

#### Inspector Comment

LMA is doing an excellent job maintaining their vegetation.

## Photo 1 of 1: SP\_2018\_RD2095\_322\_5\_20180516\_00015.jpg



View of well-maintained landside slope. Spring 2018.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

## **Levee Inspection Report By Mile - Spring 2018**

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.87	Rating **	М	Issue No.		Issue No. 20		20	
LM End	0.87	Issue Type +	En	Location *					
Category Supplemental			GPS Latitude/Longitude						
Calegory				Start		End			
Item	DWR UCI	IP Field Study		37.7615	82 °	37.761582	٥		
пеш				-121.3178	81 °	-121.317881	٥		
DWR ID									

#### Comment Code

## Inspector Comment

FS\_ID:19812 DS\_ID:21637 EP\_NO: 13926

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No electrical connection can be identified. Possibly

awaiting a flood event for re-activation.

FIELD\_STRUCT\_DESC: 40-inch steel drainage discharge pipe through the levee, 1 foot below the crown. 6 pumps mounted on a wooden pier at the landside (LS) toe All the pumps discharge into a 40-inch pipe. Permit was for a 24-inch steel discharge pipe through the levee, 2 feet below the crown with a flap gate on the waterside (WS), but permit notes show it was modified in 2001 to its current status. (Permit No. 13926 - State of California, Department of Corrections [date not indicated in permit database]).

FS Date: 9/10/2013

LM Start	0.87	Rating **	М	Issue No.	20 (cont)
LM End	0.87	Issue Type +	En	Location *	



Pumps on pier at LS toe. Note electrical conduit without connection on right side of pier.

## Photo 2 of 3: UCIP\_SP\_2018\_19812\_33710.jpg



Pipe on LS slope.

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.87	Rating **	М	Issue No.		20 (cont)		
LM End	0.87	Issue Type +	En	Location *				
Category	Supplemental				GPS Latitude/Longitude			
Calegory	gory			Start		End		
Item	DWR UC	IP Field Study		37.76158	2°	37.761582°		
пеш				-121.31788	1°	-121.317881 °		
DWR ID								

#### Comment Code

## Inspector Comment

FS\_ID:19812 DS\_ID:21637 EP NO: 13926

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No electrical connection can be identified. Possibly

awaiting a flood event for re-activation.

FIELD\_STRUCT\_DESC: 40-inch steel drainage discharge pipe through the levee, 1 foot below the crown. 6 pumps mounted on a wooden pier at the landside (LS) toe All the pumps discharge into a 40-inch pipe. Permit was for a 24-inch steel discharge pipe through the levee, 2 feet below the crown with a flap gate on the waterside (WS), but permit notes show it was modified in 2001 to its current status. (Permit No. 13926 - State of California, Department of Corrections [date not indicated in permit database]).

FS Date: 9/10/2013



Pipe on WS shoulder.

LM Start	0.87	Rating **	М	Issue No.	21		
LM End	0.87	Issue Type +	En	Location *			
Category	Suppleme	GPS Latitude/Longitude					
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.76155	4 °	37.761554	
item				-121.31784	7°	-121.317847	
DWR ID							

## Comment Code

#### Inspector Comment

FS\_ID:34387 DS\_ID:21629 EP\_NO: 6259

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: What appears to be the concrete headwall on the LS toe is tilting and failing. There is a possibility that the concrete is rubble used to fill in around levee toe. Good candidate for video inspection. FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 21 feet below the crown. Slide gate in riser on the waterside (WS) slope. Concrete headwalls and aprons on both ends. Flap gate on the WS end. Two corrugated metal cutoff walls. (Permit No. 6259, 1968 - Everett Farms). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 9/10/2013

## Photo 1 of 3: UCIP\_SP\_2018\_34387\_62273.jpg



Pipe inlet located below 40-inch pipe at LS toe canal.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.87	Rating **	M	Issue No.		21 (cont)	
LM End	0.87	Issue Type +	En	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.7615	54°	37.761554	0
пеш		•		-121.317847 °		-121.317847	0
DWR ID							

## Comment Code

## Inspector Comment

FS\_ID:34387 DS\_ID:21629 EP\_NO: 6259

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: What appears to be the concrete headwall on the LS toe is tilting and failing. There is a possibility that the concrete is rubble used to fill in around levee toe. Good candidate for video inspection. FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 21 feet below the crown. Slide gate in riser on the waterside (WS) slope. Concrete headwalls and aprons on both ends. Flap gate on the WS end. Two corrugated metal cutoff walls. (Permit No. 6259, 1968 - Everett Farms). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 9/10/2013

LM Start	0.87	Rating **	М	Issue No.	21 (cont)
LM End	0.87	Issue Type +	En	Location *	



Concrete headwall on LS toe is tilting heavily towards canal.

## Photo 3 of 3: UCIP\_SP\_2018\_34387\_62271.jpg



Slide gate in 48-inch CMP riser on WS shoulder.

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.91	Rating **	М	Issue No.		22	
LM End	0.91	Issue Type +	En	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.76107	9°	37.761079°	
пеш				-121.31756	7°	-121.317567°	
DWR ID							

#### Comment Code

## Inspector Comment

FS\_ID:19815 DS\_ID:21630 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

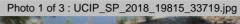
UCIP Comments: Pipe abandoned and should be verified as having

been done so properly.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch steel drainage pipe through the levee, 1.5 feet below the crown. Pump on pile structure in drainage ditch on the landside (LS). Siphon breaker in steel standpipe on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 10, March 1964, (HLM 0.92)].

FS Date: 9/10/2013

LM Start	0.91	Rating **	М	Issue No.	22 (cont)
LM End	0.91	Issue Type +	En	Location *	





Hole on LS shoulder where standpipe may have been located.

## Photo 2 of 3: UCIP\_SP\_2018\_19815\_33718.jpg



Standpipe discarded on WS berm.

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.91	Rating **	М	Issue No.		22 (cont)	
LM End	0.91	Issue Type +	En	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.7610	79°	37.761079	0
пеш				-121.3175	67 °	-121.317567	0
DWR ID							

#### Comment Code

#### Inspector Comment

FS\_ID:19815 DS\_ID:21630 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Pipe abandoned and should be verified as having

been done so properly.

FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch steel drainage pipe through the levee, 1.5 feet below the crown. Pump on pile structure in drainage ditch on the landside (LS). Siphon breaker in steel standpipe on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 10, March 1964, (HLM 0.92)].

FS Date: 9/10/2013



Possible location of 12-inch pipe connection to pump on LS toe.

LM Start	0.91	Rating **	M	Issue No.		23		
LM End	0.91	Issue Type +	En	Location *				
Category				GPS Latitude/Longitude				
Calegory				Start	End			
Item	DWR UC	IP Field Study		37.76104	16°	37.761046	0	
iteiii				-121.31754	10°	-121.317540	0	
DWR ID								

## Comment Code

#### Inspector Comment

FS\_ID:19813 DS\_ID:21631 EP\_NO: 6537

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Corroded holes on pipe at outlet WS toe, good indication of internal pipe condition. Good candidate for video

inspection.

FIELD\_STRUCT\_DESC: 14-inch steel drainage discharge pipe through the levee, 2.5 feet below the crown. Pump on pile structure in drainage ditch on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 6537, 1969 - Everett Farms). [Additional Reference(s):

DWR Levee Log, 2005]. FS Date: 9/10/2013

Dhoto 1	of 2 ·	LICID	QD.	2019	10012	22715 ina
Photo 1	013:	UCIP	25	2018	19813	33715.ipa



Siphon Breaker/vent in 24-inch steel riser on WS shoulder.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.91	Rating **	М	Issue No.		23 (cont)	
LM End	0.91	Issue Type +	En	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory				Start		End	
Item	DWR UC	IP Field Study		37.76104	6°	37.761046°	
пеш				-121.31754	0°	-121.317540°	
DWR ID							

#### Comment Code

## Inspector Comment

FS\_ID:19813 DS\_ID:21631 EP\_NO: 6537

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Corroded holes on pipe at outlet WS toe, good indication of internal pipe condition. Good candidate for video

inspection.

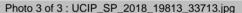
FIELD\_STRUCT\_DESC: 14-inch steel drainage discharge pipe through the levee, 2.5 feet below the crown. Pump on pile structure in drainage ditch on the landside (LS). Siphon breaker in 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Flap gate on the WS end. (Permit No. 6537, 1969 - Everett Farms). [Additional Reference(s): DWR Levee Log, 2005].

FS Date: 9/10/2013

LM Start	0.91	Rating **	М	Issue No.	23 (cont)
LM End	0.91	Issue Type +	En	Location *	



Pump on wooden pier at LS toe.





Butterfly valve at pump on LS toe.

## **Unit Cover Sheet**

**Spring 2018 Levee Inspection Results** 

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles
Unit No. 02 San Joaquin River	Left	3.41

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/15/2018 - 5/15/2018			
DWR Inspector	Zach Jojola			
Accompanied By	Rosie Silva RD2095			

#### Summer & Winter Inspections

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- a) completion of the inspection
- b) any changes other than the results of normal maintenance
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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

## Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.03	Rating **	С	Issue No.		9
LM End	0.03	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		37.7589	86°	37.758986 °
пеш				-121.3078	54 °	-121.307854 °
DWR ID	DWR_RD2	095_02_s _ 201	3_9			
		Comn	nent Cod	le		
S3 : Repai access wh		slope damag le.	ed by ve	hicle traffic	and	l prevent
Inspector Comment						

No Photos

LM Start	0.36	Rating **	М	Issue No.	5			
LM End	0.82	Issue Type +	En	Location *		LS		
Category	Earthen L	.evee		GPS La	titud	le/Longitude		
Calegory				Start		End		
Item	Encroach	ments		37.7549	52 °	37.749645 °		
-121.305880 ° -121.301977								
DWR ID DWR_RD2095_02_f _ 2012_5								
	Comment Code							

DT : Ditch

Inspector Comment





View of a ditch along the landside toe.

LM Start	0.60	Rating **	М	Issue No.		6		
LM End	0.60	Issue Type +	Ma	Location *		LS		
Category	Earthen L	.evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Vegetatio	n		37.7516	68°	37.751668	0	
-121.304302 ° -121.304							0	
DWR ID DWR_RD2095_02_s _ 2012_6								
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Small shrub at the edge of the ditch.

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

## Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	0.97	Rating **	A/W	Issue No.		941	
LM End	0.97	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		37.7497	06°	37.749706°	
пеш	-121.299237 ° -121.2992						
DWR ID DWR_RD2095_02_s _ 2012_941							
Comment Code							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

Dense bush within 20' of crown on waterside slope.

No Photos

No Photos

LM End         0.98         Issue Type +         Ma         Location *         WS           Category         Earthen Levee         GPS Latitude/Longitude           Item         Vegetation         37.749629 ° 37.749629 ° 37.749629 ° -121.299040 ° -121.299040 ° -121.299040 °           DWR ID         DWR_RD2095_02_s_2012_940	LM Start	0.98	Rating **	A/W	Issue No.		940	
Category         Start         End           Item         Vegetation         37.749629 ° 37.749629 ° -121.299040 ° -121.299040 °	LM End	0.98	Issue Type +	Ма	Location *		WS	
Start         End           Vegetation         37.749629 °         37.749629 °           -121.299040 °         -121.299040 °         -121.299040 °	Catagony	Earthen L	evee		GPS La	atitud	e/Longitude	
-121.299040 ° -121.299040 °	Calegory				Start		End	
-121.299040 -121.299040	Itom	Vegetation			37.7496	29°	37.749629°	
DWR ID DWR_RD2095_02_s _ 2012_940	iteiii	-121.299040 ° -121.299040						
	DWR ID DWR_RD2095_02_s _ 2012_940							

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

LM Start	1.09	Rating **	N	Issue No.	e No. 3		
LM End	1.09	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Lat	itud	e/Longitude	
Calegory				Start En		End	
Item	Trim / Thi	n Trees		37.74818	4 °	37.748184	0
пеш		-121.29899	5°	-121.298995	0		
DWR ID DWR_RD2095_02_s _ 2012_3							
	Comment Code						

T5: Tree stumps.

Inspector Comment

4 stumps

## Photo 1 of 1: SP\_2018\_RD2095\_323\_3\_20180507\_00005.jpg



View of the tree stumps on the landside levee slope..

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

## **Levee Inspection Report By Mile - Spring 2018**

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.30	Rating **	С	Issue No.		8	
LM End	1.30	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		37.7453	43 °	37.745343 °	
пеш				-121.2976	20°	-121.297620 °	
DWR ID	DWR_RD2	095_02_f _ 201	2_8				
		Comn	nent Cod	le			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			
Two tree stumps.							

No Photos

LM Start	1.31	Rating **	С	Issue No.		17			
LM End	1.31	Issue Type +	En	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Encroach	ments		37.7453	14°	37.745314°			
item				-121.2976	66 °	-121.297666 °			
DWR ID DWR_RD2095_02_f _ 2015_17									
		Comn	nent Cod	le					
FE : Fence	9								
Inspector Comment									
Gate removed. Spring 2018									

No Photos

LM Start	1.35	Rating **	С	Issue No.		195	
LM End	1.35	Issue Type +	Ma	Location *	WS		
Category	Earthen L	.evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		37.7447	'46 °	37.744746	٥
пеш				-121.2976	95 °	-121.297695	٥
DWR ID	DWR_RD2	095_02_s _ 201	4_195				
		Comn	nent Cod	le			
E1 : Note a	and monito	or erosion site					
		Inspecto	or Comm	nent			
Erosion site repaired February 2017.							

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.48	Rating **	М	Issue No.		942
LM End	1.48	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS Lat	itud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	37.74314	2°	37.743142°
пеш				-121.29769	2°	-121.297692 °
DWR ID						

#### Comment Code

## Inspector Comment

FS\_ID:19863 DS\_ID:21642 EP\_NO: 4658

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Pipe appears abandoned in place and re-routed to LM 1.652. Need to verify pipe was properly abandoned. Permit FIELD\_STRUCT\_DESC: \*ABANDONED\* 14-inch steel drainage pipe through the levee, 3.5 feet below the crown. Pump on structure over drainage ditch on the landside (LS). Flap gate on the waterside (WS) end. (Permit No. 4658, 1964 - Cochran Company, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M

Manual 11, 1968, (HLM 1.51)]. FS Date: 9/10/2013 Photo 1 of 1: UCIP\_SP\_2018\_19863\_33760.jpg



Pump visible on LS toe, but pipe has been re-routed to southwest.

LM Start	1.50	Rating **	A/W	Issue No.		12		
LM End	1.50	Issue Type +	Ma	Location *	WS			
Category	GPS La	titud	e/Longitude					
Calegory			Start		End			
Vegetation Item				37.74282	28°	37.742828	0	
item				-121.29753	32 °	-121.297532	0	
DWR ID DWR_RD2095_02_s _ 2012_12								
Comment Code								

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.63	Rating **	М	Issue No.		943
LM End	1.63	Issue Type +	En	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory	Calegory					End
Item	DWR UCI	IP Field Study		37.7413	45 °	37.741345°
пеш				-121.2961	89 °	-121.296189°
DWR ID						

#### Comment Code

## Inspector Comment

FS\_ID:19866 DS\_ID:21654 EP\_NO: 6298A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD\_STRUCT\_DESC: 16-inch steel drainage pipe through the levee 2-feet below the crown. Siphon breaker in PVC riser on WS shoulder. Pump on pier in ditch on LS toe 750-feet to Northwest from crossing.

FS Date: 9/10/2013

LM Start	1.63	Rating **	М	Issue No.	943 (cont)
LM End	1.63	Issue Type +	En	Location *	



Pump located at levee toe 750-feet north west of pipe crossing.

Photo 2 of 3: UCIP\_SP\_2018\_19866\_33766.jpg



16-inch steel pipe on LS slope.

## Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.63	Rating **	М	Issue No.		943 (cont)
LM End	1.63	Issue Type +	En	Location *		
Category	ental	GPS Latitude/Longitude				
Calegory	Calegory			Start		End
Item	DWR UC	IP Field Study		37.7413	45 °	37.741345°
пеш				-121.29618	39°	-121.296189°
DWR ID						

#### Comment Code

## Inspector Comment

FS\_ID:19866 DS\_ID:21654 EP\_NO: 6298A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: No permit identified for this crossing.

FIELD\_STRUCT\_DESC: 16-inch steel drainage pipe through the levee 2-feet below the crown. Siphon breaker in PVC riser on WS shoulder. Pump on pier in ditch on LS toe 750-feet to Northwest from crossing.

FS Date: 9/10/2013



Pump located at levee toe 750-feet north west of pipe crossing.

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.		1
LM End	1.77	Issue Type + Ma		Location *		WS
Category	ental	GPS Latitude/Longitude				
Calegory	Category					End
Item	DWR Erosion Survey			37.7401	96°	37.740196°
пеш	item				62 °	-121.297662 °
DWR ID	RD2095U0	2RM60.62				

## Inspector Comment

Comment Code

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

## Photo 1 of 4: SP\_2018\_RD2095\_323\_1\_20180507\_00001.jpg



Looking at the erosion from downstream.

#### Photo 2 of 4: SP\_2018\_RD2095\_323\_1\_20180507\_00002.jpg



Looking at the erosion from upstream.

## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.74	Rating **	A/W	Issue No.		1 (cont)	
LM End	1.77	Issue Type +	Ма	Location *	WS		
Catagony	GPS La	atitud	e/Longitude				
Calegory	Category					End	
Item	DWR Erosion Survey				96°	37.740196	0
пеш				-121.2976	62 °	-121.297662	0
DWR ID	RD2095U0	2RM60.62					

#### Comment Code

## Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

## Photo 3 of 4: SP\_2018\_RD2095\_323\_1\_20180507\_00003.jpg



Close view of the erosion.

Photo 4 of 4: SP\_2018\_RD2095\_323\_1\_20180507\_00004.jpg



Close view of the erosion.

Location Rating Issue Type Ma : Maintenance Deficiency LS: Land Side N/A: Not Applicable N: Not Inspected/Rated : Acceptable Minimally Acceptable Ob : Design & System Obsolescence WS: Water Side C: Corrected En: Enforcement CR: Crown U: Unacceptable A/W: Acceptable but Monitor & Maintain

## **Levee Inspection Report By Mile - Spring 2018**

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.75	Rating **	A/W	Issue No.	15		
LM End	1.84	Issue Type +	Ma	Location *			
Supplemental Category				GPS Latitude/Longitude			
Calegory			Start		End		
Item	2017 Stor	m Damage		37.74019	96°	37.738880 °	
пеш				-121.29766	62 °	-121.298260 °	
DWR ID	WR ID DWR_RD2095_02_f _ 2017_15						
Comment Code							

## Inspector Comment

Levee Evaluation Comments

Description: Active waterside erosion on san joaquin river near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.

Site ID No:469

Site Designation:LMA-296

Repair Type: Erosion

Rating:Serious

Field Date:7/26/2017

Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)
LM End	1.84	Issue Type +	Ma	Location *	

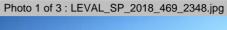




Photo 2 of 3: LEVAL\_SP\_2018\_469\_2349.jpg



## Levee Inspection Report By Mile - Spring 2018

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)		
LM End	1.84	Issue Type +	Ма	Location *			
Category				GPS Latitude/Longitude			
Calegory				Start Er			
Item	2017 Stor	m Damage		37.7401	96°	37.738880 °	
пеш				-121.2976	62 °	-121.298260 °	
DWR ID	DWR ID DWR_RD2095_02_f _ 2017_15						
	Comment Code						

## Inspector Comment

Levee Evaluation Comments

Description:Active waterside erosion on san joaquin river near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.

Site ID No:469

Site Designation:LMA-296 Repair Type: Erosion

Rating:Serious

Field Date:7/26/2017

Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.



LM Start	2.08	Rating **	М	Issue No.	944		
LM End	2.08	Issue Type +	En	Location *			
Supplemental				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UC	IP Field Study		37.7354	16°	37.735416 °	
пеш			-121.2978	60°	-121.297860 °		
DWR ID							
	Comment Code						

## Inspector Comment

FS\_ID:19867 DS\_ID:21643 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Siphon breaker on LS shoulder does not appear to be

unctional.

FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through the levee, 2 feet below the crown. Slant pump on steel platform on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder marked by a T-post. Service pole and meter on the LS toe. Possible concrete standpipe on the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.12)].

FS Date: 9/10/2013

## Photo 1 of 3 : UCIP\_SP\_2018\_19867\_33771.jpg



Siphon breaker on LS shoulder next to T-post with Power pole and concrete standpipe on LS toe.

## **Levee Inspection Report By Mile - Spring 2018**

## Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	2.08	Rating **	М	Issue No.		944 (cont)	
LM End	2.08	Issue Type +	En	Location *			
Category	Supplemental				GPS Latitude/Longitude		
Calegory		Start		End			
Item	DWR UC	IP Field Study		37.73541	6°	37.735416	0
пеш				-121.29786	o°	-121.297860	0
DWR ID							

#### Comment Code

## Inspector Comment

FS\_ID:19867 DS\_ID:21643 EP\_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Siphon breaker on LS shoulder does not appear to be

functional.

FIELD\_STRUCT\_DESC: 16-inch steel irrigation pipe through the levee, 2 feet below the crown. Slant pump on steel platform on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder marked by a T-post. Service pole and meter on the LS toe. Possible concrete standpipe on the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.12)]. FS Date: 9/10/2013

LM Start	2.08	Rating **	М	Issue No.	944 (cont)
LM End	2.08	Issue Type +	En	Location *	

## Photo 2 of 3: UCIP\_SP\_2018\_19867\_33770.jpg



Siphon breaker on LS shoulder next to T-post.

## Photo 3 of 3: UCIP\_SP\_2018\_19867\_33769.jpg



Concrete standpipe on LS toe.

## Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	2.09	Rating **	С	Issue No.		19
LM End	2.09	Issue Type +	Ma	Location *		WS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory						End
Item	Slope Stability			37.7352	76°	37.735276°
пеш				-121.2977	77 °	-121.297777°
DWR ID DWR_RD2095_02_f _ 2016_19						
		Comn	nent Cod	le		
S1 : Repai	r slope ins	tability.				
			_			
		Inspecto	or Comm	nent		
Area needs to be monitored for possible further erosion.						

No Photos

LM Start	2.12	Rating **	A/W	Issue No.		20	
LM End	2.12	Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start		End	
Item	Vegetation		37.734858 °		37.734858	0	
пеш	item			-121.2977	58°	-121.297758	0
DWR ID	DWR ID DWR_RD2095_02_s _ 2012_20						
Comment Code							
V4 : Elderberries are blocking visibility and flood fight capability.							

No Photos

Inspector Comment

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiency

Ob : Design & System Obsolescence

En : Enforcement

## Levee Inspection Report By Mile - Spring 2018

## **Reclamation District No. 2095 Paradise Cut**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/15/2018 05/15/2018	Zach Jojola

LM Start	2.38	Rating **	A/W	Issue No.		945
LM End	2.38	Issue Type +	Ма	Location *		
Category	Suppleme	ental		GPS La	titud	e/Longitude
Calegory				Start		End
Item	DWR UC	IP LMA Respo	nsibility	37.73131	3°	37.731313°
Item				-121.29829	98°	-121.298298 °
DWR ID						

#### Comment Code

## Inspector Comment

FS\_ID:19871 DS\_ID:21644 EP\_NO: N/A

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD\_STRUCT\_DESC: 8-inch steel drainage pipe through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Vent pipe at the waterside (WS) toe. 1.5-inch galvanized iron electrical conduit through the levee at the same location. Service pole with a switch box and meter on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.41)]. FS Date: 9/10/2013

LM Start	2.38	Rating **	A/W	Issue No.	945 (cont)
LM End	2.38	Issue Type +	Ма	Location *	

## Photo 1 of 2 : UCIP\_SP\_2018\_19871\_33778.jpg



Pump on metal pier off LS toe.

## Photo 2 of 2: UCIP\_SP\_2018\_19871\_33777.jpg



Vent standpipe on WS toe.